

The Crittenden Press.

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NO

NEWS FROM MINERALDOM.

OUR MINING REPORTER GIVES SOME VALUABLE INFORMATION REGARDING MINING PROCESSES AND MACHINERY.

CRISP AND SPICY MINING PERSONALS.

The Hooper pneumatic concentrators or separators will be in operation at the Cullen mining plant, Salem, under the direction of Capt. Haase, in a day or two. The raising of ore has been resumed at this mine and should the Hooper company's machine do the work satisfactorily, as there seems not much doubt, Capt. Haase will have the satisfaction of solving the fluor spar-zinc problem of the district. The sizing of the crushed material, that is, securing particles practically of the same size will no doubt be difficult, but machinery nowadays can do most anything, and we hope the Capt. will not have our Colorado experience in getting material down to a point where the air suction will lift out the light material that is the fluor spar, and dropping the zinc. We used to think in those days after patiently passing through rolled ores between screens of 5 meshes difference three or four times and then finding both greater and lesser particles each time of screening, that life was scarcely worth the living.

These Hooper machines are very successful in separating garnet from granite in northern New York, and the main difficulty here we believe will be found in the sizing of the ore. In cleaning or grading wheat or corn an air suction does the work perfectly, simply on account of the grains being of the same size; the small and shrunken kernels pass into the tailings while the plump wheat or corn, being heavier, with a given quantity of air will not be lifted. This principle holds good in nearly all air separators. The difference in specific gravity between fluor spar and zinc blende being fractional, very perfect sizing will necessarily have to be made to make a clean zinc product.

Many inquiries have been made the Press why a small percentage of fluor spar in zinc ores should be considered so detrimental by the smelting companies. We are unable to ascertain a single instance where zinc blende mingled with fluor spar has ever been used in a retort to produce spelter. It is well to understand that zinc ores are reduced or smelted in an entirely different manner from most others—all others, with possibly the exception of cinnabar, from which quicksilver is produced, are smelted in an open furnace. Zinc blende, or black jack, such as we produce here, is first cleared of rock and other impurities, desulphurized, mixed with small pieces of coke and placed in a clay retort holding about 100 pounds; the top of this retort is sealed, the retort itself being placed in a strongly heated furnace, a tube passes from the inside of the retort down a few inches below its base; as the heat rises the zinc volatilizes and passes on through this tube into a colder atmosphere, where it condenses into spelter or slightly impure zinc. The fact that the fluorine in fluor spar will successfully attack both iron and clay substances, in many instances destroying them, has caused the zinc ore buyers to look coldly upon the product of this district.

Fluorine is used to purify metal. In the open hearth steel process fluor spar is thrown in at the last stage, to cause the impurities in the molten metal to rise to the surface, when it is skimmed off and the best steel in the world is produced. The larger steel producers use on an average 15 lbs. of fluor spar to a ton of steel produced. In blast furnaces it is used only in case of a "freeze" or choking of the iron, limestone, coke and coal constituting the charge. In this instance fluor spar quickly clears a way for the blast, and saves many a dollar in time and depreciated machinery.

In zinc carbonate smelting or burning, the process is again quite different. This ore is used almost entirely to produce zinc oxide or zinc white, as the painters term it. At Mineral Point, Wisconsin, one of the largest carbonate consuming plants in this country is located, burning on an average 150 tons daily. Their purchases are made through all the zinc producing districts—Arkansas, Missouri, Illinois, New Mexico, Kentucky, etc. To give the process in detail would require too much space; suffice it to say that the carbonate is crushed, mixed with fine anthracite coal, and fed into an open furnace; the zinc volatilizes, passes up and into a condensing chamber, where it falls as particles of pure white oxide and is then packed into kegs and barrels for consumption throughout the world.

The marked difference between the carbonate and the blende is that the latter has in combination about 33 per cent of sulphur; this sulphur must first be eliminated before the zinc is placed in the retorts for volatilizing. This is done by a low heat which passes off the sulphur without disturbing the zinc. Sulphuric acid is largely produced by nearly all zinc smelting plants, from the sulphur in combination with zinc, and indeed adds a very considerable amount to the company's bank account, as the sulphur is never figured when buying zinc blende in this country. At Swansea, in Wales, where smelting is reduced to an exact science, and also on the continent all saleable or useable minerals or metals are paid for. Carbonate ores contain zinc and carbonic acid, in about the ratio of 52 to 48 per cent.

In the reduction of galena and in fact all lead ores, the water jacket furnace is used, which is essentially the same as the blast furnaces of the iron producers. The ore is mixed with limestone and coke in charges of about 100 lbs. and is very easily reduced. Marion should be a large producer of lead ores, and will be in the future.

The Fluor Spar Company, of which Mr. P. S. Maxwell is President and Treasurer, formally announces to the consumers through out the country their absolute independence of St. Louis parties, either implied or expressed.

The Beard lease some five miles below Crittenden Springs, is showing up well in gravel fluor spar. After sinking a shaft 60 or 70 feet the management of the Kentucky Fluor Spar Co. gave one of their miners permission to do a little prospecting, the result being a fine body of gravel fluor spar 10 to 12 feet in width.

Mr. R. W. Bingham, President of the Western Kentucky Mining Co., and Prof. Burke, of the Mineralogical Department of the Louisville High Schools, were at the Springs several days last week. Manager Drescher is again freeing the Columbia mining shaft of water, preparatory to doing some real mining this time.

Fluor spar of good quality is being raised from the Wilson land very near the Crittenden Springs Hotel. Four miners are trying their success as miners and dealers in fluor spar.

Mr. Henry C. Clark, President of the Chicago Mining Company, and Mr. John Grady, one of its stockholders, were in town last week and had the Bigham shaft pumped out with a view of investigating the width of the fluor spar vein at the level depth. They were to return last Thursday. Side tracked somewhere, probably, as they haven't shown up yet.

General Manager Porter, of the Kentucky Fluor Spar Company, keeps the atmosphere dusty in riding over the country for good fluor spar and fluor spar properties.

The steel and metal workers strike don't seem to make much difference in the demand for fluor spar for flooring purposes in this market. Orders by wire and by mail chase each other. President Maxwell is one of the busiest men in town; when he is not telephoning orders for empty cars for Crayneville, the Fluor Spar Company's loading station, he may be seen laying bricks at the new electric light plant near the depot.

Still the same loaded wagons following each other from the Blue and Nunn carbonate of zinc property to the Illinois Central depot for shipment north; 110 tons was the record last week.

The new gasoline engine, pump, washer and all the paraphernalia of a way up mining plant was installed last week at the old Jim mine. Engineer Clem Nunn was the architect and he shows up A No. 1.

Mr. W. C. Uren, wife and daughter, arrived here last week from Wisconsin. The three will prove a most welcome addition to our church and social life, as they purpose making Marion their home for the future. Mr. Uren is known all over the country as one of the best posted zinc experts in the world. When he gets a glass focussed on a bit of ore and says, "it is pretty near zinc, but not quite," you needn't send it away for assay—you can bet large odds Uren is right; there isn't a bit of zinc in it. He is Messrs. Blue & Nunn's manager at their carbonate property west of town.

To Save Her Child.

From frightful disfigurement Mrs. Nannie Gallagher of LaGrange, Ga., applied Bucklen's Arnica Salve to great sores on her head and face and writes that its quick cure exceeded all her hopes. It works wonders in Sores, Bruises, Skin Eruptions, Cuts, Burns, Scalds, Piles, etc. Cure guaranteed by J. H. Orme.

WEEK'S REVIEW.

Bright and New Paragraphs About Kentucky and Kentuckians.

Lloyd Tevis Breckinridge, grandson of the late Vice President Breckinridge, committed suicide at San Francisco.

N. B. Hayes, of Pineville, announces that he will again be a candidate for the Democratic nomination for Attorney General.

Major Thos. Jones, a hardware merchant of Paducah, died Monday as the result of an amputation of the right toe, necessitated on account of bunions.

Nora Ham, member of a wealthy Ft. Thomas, Ky., family, committed suicide because she was not allowed to marry a soldier lover.

Former Gov. Bradley advised Mr. James F. Grinstead not to accept the Republican nomination for mayor of Louisville. Mr. Bradley says no honest man can accept the nomination, and that the Republicans of Louisville can not hope to win until Collector Sapp's present power is taken from him.

Circuit Judge I. H. Goodnight died at his home at Franklin last week, after a long illness. He was Judge of the Seventh District Circuit Court and a prominent candidate for the United States Senate. He has been in Kentucky politics for many years, and was widely known and popular.

Fire destroyed the large livery at the residence of J. B. Taylor, of Princeton, Thursday night. The Cumberland Presbyterian church was damaged and Dr. W. R. Clement fell from the roof and was seriously injured. Circuit clerk E. M. Johnson and Will S. Rice were overcome by the heat.

The Illinois Central railroad company now has a large force of hands at work rebuilding the Cumberland river bridge near Grand Rivers. An incline is also being put in at that point for the purpose of receiving ore from the DeGraffenreid and Hillman lands, which will be shipped by barges to that point.

The new State Election Commissioners met in Frankfort Monday and organized. Mr. Allen E. Smith, of Louisville, who was secretary of the old commission, was re-elected. The Commissioners directed the Secretary to notify the State Central and county committees of the two dominant parties to make recommendations for county commissioners.

Mrs. Mollie Powell, wife of J. L. Powell, proprietor of the planing mill at Perryville, was horrified on returning to the room where she had left her one-year-old baby to find a monster snake coiled up only a few feet from the child, staring it in the eyes. Her screams brought her brother, who killed the reptile.

State Superintendent McChesney reversed the decision of county superintendent Hignite, of Laurel county, removing Miss Sudie Snuffer, school teacher, for alleged bribery of school trustee. The Superintendent restores the young woman to her position in the school. She claimed the charge was preferred because she testified against Caleb Powers.

The taking of the charitable institutions of the State and the asylums for the insane out of the hands of the commissioners appointed by the Governor and placing them in the hands of a commission elected by the general assembly, is being agitated, and a

Young Man!

Young Woman!

Get an Education.

Marion School, MARION, KY.

SESSION BEGINS Monday, Sept. 16, 1901.

Common School Branches.

High School Studies.

Reputation established. Management same as in preceding seven years.

Work tried by hundreds of resident and non-resident pupils.

Practicality tested by time.

Tried, tested and found true.

Expenses low. Write to

CHARLES EVANS.

bill to amend the present law certain to be introduced a new winter's session of the legislature.

The Canvassing Committee of the Republican Executive Committee, of Louisville, filed a paper admitting that fraud was committed in the primary of July 6th, and announcing that the ballots had been burned and otherwise destroyed. It is claimed that all record of the vote is gone. The committee will declare the primary null and void and will call a convention to nominate another ticket.

At Nebo, Hopkins county, an accident resulted in the death of Willie Hill, the six-year old son of Mr. Edward Hill. Mr. Hill had just filled a barrel with water and was engaged in doing some other work on the farm when the little fellow climbed upon a box to look into the barrel, into which he fell headforemost. He was found by his grandmother a few minutes later, standing on his head in the barrel and was dead when taken out.

BOUNTY

Is due thousands of soldiers, and 3 months extra pay to officers or their heirs.

C. B. WADLEIGH, 518 Fifth St. Washington, D. C.

.. Hughes' .. Chill Tonic

Palatable. Better than Calomel and Quinine. (Contains no arsenic) THE OLD RELIABLE.

Excellent General Tonic. As well as a sure cure for

Chills and Fever.

Malarial Fevers, Swamp Fevers, and Bilious Fevers

IT NEVER FAILS!

Just what you need at this season.

MILD LAXATIVE.

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Guaranteed by your Druggists.

Don't take any substitute. Try it.

50 ct. and \$1 Bottles.

Prepared by Robinson-Pettit Co.

(INCORPORATED.) LOUISVILLE, KY.

Neuralgia Banished.

There is no more severe or stubborn pain than neuralgia. A remedy that will cure it will cure any pain. Dr. G. S. Stivers, dentist, Louisville, Ky., says: "My wife suffered over two years from very severe neuralgia, which several physicians failed to relieve. I then got Morley's Wonderful Ointment which relieved her in five minutes and soon effected a permanent cure. Free trial bottles at Orme's."

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Children love to take Little Liver pills for Biliousness, because they are small and taste like candy, and gripe nor sicken them. Coated. One a dose. Sold H. Orme.

I. W. HARPER KENTUCKY WHISKEY

Cherished by Judges of Quality.

Awarded Gold Medal

Paris Exposition 1900.

FOR SALE BY J. H. ORME.

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Effective March 10th, 1901, the

FRISCO LINE

Announces the Opening of a

Red River Division

Denison and Sherman, Texas.

High Train Service will show

standard from St. Louis and Kansas

over the St. L.

St. Louis, Mo. to